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OFFICIAL
PATENT APPLICATION
Do. No. 2705-135

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Mehryar K. Garakani, et al.

Confirmation No.:   6083

Serial No.:   09/728,431   Examiner: Christopher M. Swickhamer

Filed: November 30, 2000   Group Art Unit: 2662

For: SYNCHRONIZATION OF V42bis DE/COMPRESSION FOR
                   V34/V42 MODEM RELAY METHOD AND APPARATUS

Date: May 28, 2004

Mail Stop NON-FEE AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT

Responsive to the Office Action, Paper No. 5, dated March 1, 2004, please amend the application as follows.

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims begin on page 3 of this paper.

Remarks begin on page 11 of this paper.

Amendments to the Specification

On page 1, lines 9-12, please replace the paragraph as follows:

This application is a continuation-in-part of co-pending U.S. Patent Application Serial No. 09/715,438, filed November 16, 2000 entitled HIGH-SPEED DIAL-UP MODEM SESSION STARTUP METHOD AND APPARATUS, subject to common ownership herewith by Cisco Technology, Inc.

On page 8, lines 23-35, please replace the paragraph as follows:

Thus, the invention involves a method for establishing and maintaining the required synchronization between the V.42bis entities at the end-points (i.e. the client machine C and the server machine S modems). By use of the invention, the gateways are offloaded and are not required to perform the de/compression function for V.34/V.42/V.42bis modem relay. In accordance with the invention, the gateways terminate the V.34 physical layer, preferably in accordance with the teachings of our co-pending U.S. Patent Application Serial No. 09/715,438, referenced above, or within the spirit and scope of the invention by any other suitable means. Also in accordance with the invention, the gateways terminate also the V.42 error correcting data link layer, using any suitable method such as that suggested by the teachings of our same co-pending patent application. ~~For example, the error correction that is normally handled by the data link layer in the modem communications would be now handled between the gateways, rather than the modems.~~ Importantly, the gateways do not terminate the V.42bis functionality, but instead that function is performed by the end-point modems themselves.

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